

## CLAIMS

What is claimed is:

- 1           1.       An expansion card support, comprising:  
2           a tool-free, chassis mountable arm comprising a support end and a card-  
3           configurable mount to orient the support end over an expansion card  
4           within a chassis, wherein the chassis mountable arm is adapted to  
5           bias the expansion card.
- 1           2.       The expansion card support set forth in claim 1, wherein the tool-  
2           free, chassis mountable arm comprises a mounting base and a rotatable finger.
- 1           3.       The expansion card support set forth in claim 2, wherein the  
2           mounting base comprises a chassis mounting latch.
- 1           4.       The expansion card support set forth in claim 2, wherein the  
2           mounting base comprises at least one finger mounting receptacle.
- 1           5.       The expansion card support set forth in claim 4, wherein the at least  
2           one finger mounting receptacle comprises a finger mounting latch.
- 1           6.       The expansion card support set forth in claim 1, wherein the tool-  
2           free, chassis mountable arm comprises a spring adapted to bias the support end  
3           against the expansion card.

1           7.       The expansion card support set forth in claim 1, wherein the tool-  
2 free chassis mountable arm is rotatable to move the support end to a plurality of  
3 positions to accommodate different card dimensions.

1           8.       The expansion card support set forth in claim 1, wherein the support  
2 end comprises a lateral retention mechanism.

1           9.       The expansion card support set forth in claim 8, wherein the lateral  
2 retention mechanism comprises a frictional material.

1           10.      The expansion card support set forth in claim 8, wherein the lateral  
2 retention mechanism comprises a multi-leveled surface.

1           11.      A computer, comprising:  
2 a chassis;  
3 a plurality of card slots; and  
4 a card support mechanism, comprising:  
5 a tool-free chassis mount coupled to the chassis adjacent the  
6 plurality of card slots;  
7 a plurality of tool-free arm mounts; and  
8 at least one rotatable arm mounted to a desired one of the plurality  
9 of tool-free arm mounts, wherein the rotatable arm  
10 comprises a card engagement end positioned over a desired  
11 one of the plurality of card slots.

1           12.     The computer set forth in claim 11, comprising an electronics card  
2     disposed in the card slot, wherein the card engagement end is biased against the  
3     electronics card.

1           13.     The computer set forth in claim 11, wherein the tool-free chassis  
2     mount comprises a snap-fit mount coupled to a mating snap-fit mount disposed on  
3     the chassis.

1           14.     The computer set forth in claim 11, wherein the card support  
2     mechanism comprises at least one other rotatable arm mounted to another desired  
3     one of the plurality of tool-free arm mounts and having another card engagement  
4     end positionable over another desired one of the plurality of card slots.

1           15.     The computer set forth in claim 11, wherein the card engagement  
2     end comprises a substantially frictional material.

1           16.     The computer set forth in claim 15, wherein the substantially  
2     frictional material comprises a rubber pad.

1           17.     The computer set forth in claim 11, wherein the card engagement  
2     end comprises at least one groove adapted to engage a peripheral edge of an  
3     electronics card mountable in the desired one of the plurality of card slots.

1           18. A card support for a computer, the card support comprising:  
2           means for configurably biasing a card into a card slot;  
3           means for laterally supporting a peripheral portion of the card.

1           19.     The card support set forth in claim 18, comprising means for tool-free  
2           chassis mounting the means for configurably biasing and the means for laterally  
3           supporting.

1           20.     The card support set forth in claim 18, wherein the means for  
2           configurably biasing comprise means for rotatably contacting the peripheral portion.

1           21.     The card support set forth in claim 18, wherein the means for biasing  
2           comprise means for engaging an intermediate edge of the peripheral portion.

1           22. A system, comprising:  
2           a card support mechanism configurable for at least one electronics card,  
3           comprising:  
4           a chassis with at least one tool-free mounting mechanism; and  
5           an arm rotatably coupled to the chassis, wherein the arm comprises  
6                      a card retention end springably engageable against a  
7                      peripheral portion of the at least one electronics card.

1           23.     The system set forth in claim 22, wherein the arm is removable  
2           from the chassis.

1           24.     The system set forth in claim 22, wherein the arm is rotatable to  
2     engage and secure the at least one electronics card to the card support mechanism.

1           25.     The system set forth in claim 22, wherein the arm comprises an  
2     elongated configuration with one end rotatably coupled to the chassis.

1           26.     The system set forth in claim 22, wherein the chassis comprises a  
2     desktop computer.

1           27.     The system set forth in claim 22, wherein the chassis comprises a  
2     server.

1           28. A system, comprising:  
2     a card support mechanism, comprising:  
3                 a chassis mountable structure adapted for tool-free, cantilevered  
4                 chassis mounting to a chassis; and  
5                 a springy arm rotatably coupled to the chassis mountable structure  
6                 and engageable against an electronics card disposed in the  
7                 chassis.

1           29.     The system set forth in claim 28, wherein the spring arm comprises  
2     an engagement end having at least one groove adapted to engage an outer edge of  
3     the electronics card.

1           30.     The system set forth in claim 28, wherein the card support  
2 mechanism is adapted to provide lateral support to the expansion card.

1           31. A system, comprising:  
2 a chassis comprising a first side and a second side adjacent the first side;  
3 a board mounted to the first side and having a card slot;  
4 an expansion card mounted to the card slot; and  
5 a card support arm rotatably coupled to the second side and engaged  
6 against a portion of the expansion card opposite from the board.

1           32. The system set forth in claim 31, wherein the card support arm  
2 comprises at least one tool-free mount removably coupled to the second side.

1           33. The system set forth in claim 31, wherein the card support arm is  
2 cantilevered to the second side.

1           34. The system set forth in claim 31, wherein the card support arm is  
2 disposed in one of a plurality of receptacles in a mounting base.

1           35. The system set forth in claim 34, wherein the plurality of receptacles  
2 each comprise a tool-free mounting mechanism for a plurality of card support  
3 arms.

1           36. The system set forth in claim 31, wherein the card support arm  
2 comprises a spring biasing the card support arm toward the expansion card.